CLAIMS

What is claimed is:

1. A magnetic head suspension assembly for transducing data that is recorded and read out from a surface of a rotating magnetic disk drive comprising:

an integral piece of a specified thickness including a load beam section and a flexure section, said load beam section having a tongue extending into said flexure section;

a cutout in said flexure section delineating said load beam tongue;

narrow legs substantially thinner than said specified thickness formed along the sides of said cutout and spaced from said tongue,

wherein the load force is transferred substantially through said tongue and is independent of gimballing and lateral positioning provided by said narrow legs.

2. An assembly as in Claim 1, ~~including a~~ wherein said head slider ~~having~~ has a top non-air bearing surface attached to said flexure section.

3. An assembly as in Claim 2, including means formed with said ~~flexure section~~ lateral ear for supporting said attached head slider.

4. An assembly as in Claim 3, wherein said supporting means comprises outriggers or a split tongue ~~formed at the outer edges of said flexure section~~.

5. An assembly as in Claim 3, wherein said supporting means comprises a lateral ~~part~~ ear that connects said narrow legs.

6. An assembly as in Claim 2, wherein said slider is about 0.0110 inch high, 0.0400 inch long and 0.0200-0.0260 inch wide.

7. An assembly as in Claim 2, wherein said slider is formed with a step adjacent to a platform.

8. An assembly as in Claim 7, wherein said platform of said slider is about 0.0336 inch long and said step is about 0.0015 inch high.

9. An assembly as in Claim 2, including a load dimple formed in said tongue.

10. An assembly as in Claim 9, wherein said load dimple is hemispherical in shape and faces down into contact with said top surface of said slider.

11. An assembly as in Claim 1, wherein said integral piece including said ~~split~~ tongue ~~and lateral part~~ is about 0.0012 to 0.0015 inch thick and said narrow legs are about 0.0010 inch thick.

12. An assembly as in Claim 1, wherein said load beam section is shaped as a truncated triangle.

13. An assembly as in Claim 1, including a mount section at the rear end of said load beam section for enabling mounting said suspension to an actuator arm; and

a leaf spring section between said rear mount section and said load beam section for providing flexibility to said suspension.

14. An assembly as in Claim 13, including a swage plate joined to said mount section for providing rigidity to said rear end of said suspension assembly.

15. An assembly as in Claim 13, including front flanges formed along the edges of said load beam section and rear flanges formed

along the edges of said rear mount section with a hiatus between said front and rear flanges.

16. An assembly as in Claim 15, wherein said front flanges are formed with shallow U-shaped channels, and electrical wiring without tubing is positioned within said channels.

17. An assembly as in Claim 1, including a cutout in said leaf spring section for providing flexibility to said suspension.

18. An assembly as in Claim 1, further including an apertured extension formed ~~with~~ at the rear end of said suspension assembly for enabling attachment to an actuator of a disk drive without a separate head arm to enable pivoting of said suspension assembly.

19. An assembly as in Claim 1, including a damping material ~~seated~~ on said load beam.

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